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Textile Organon

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Textile Fiber End Use Survey

Highlights

Annual U.S. End Use Summary . . . Featured Page 159.

Summary of Man-Made Fiber & Semimanufactured Imports 1977-1983 . . . see page 161.

U.S. Imports of Man-Made Fiber Rise to 39.4 Million Pounds in July . . . see page 175.

Second Quarter 1984 Domestic Shipments of Nylon Yarn to the Carpet Trades Rise Top 197 million Pounds . . . see page 172.

Presented in this issue of the *Textile Organon* is the 1984 survey of textile fiber consumption by end use. Annual data are shown for the years 1977 through 1983.

The data of this end use survey supersede those of earlier surveys. As more reliable data become available, they are incorporated to provide the most current industry data obtainable.

Compared with last year's survey, there are relatively few revisions. However, it should be noted that there has been some revision of the Top & Bottomweight Fabric, Bedspread & Quilts (Item 45) and Carpets and Rugs (Item 50) end uses.

In addition, there have been significant revisions of the textile glass component of the Electrical & Reinforced Plastics (Items 66 & 77) and Miscellaneous Industrial & Other Consumer Type Products end uses.

In some cases, these revisions involved changes in the series of data from 1977 through 1982. Revisions such as these are indicated by a black circle (●). In addition, significant single year revisions are denoted by a small "r".

When the changes described above are kept in mind, the data in this survey may be used in conjunction with earlier issues of the *Textile Organon* as follows:

Years	*Textile Organon* Issues
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983

In this manner, a continuous statistical series covering the 35-year span from 1949 through 1983 may be obtained.

Continued on page 158

TABLE 1: END USE SUMMARY CHANGES

	TOTAL FIBER								MAN-MADE FIBER							
	MILLION POUNDS				% OF TOTAL END USE[a]				MILLION POUNDS				% OF TOTAL END USE[a]			
END USE	77-80	1981	1982	1983	77-80	1981	1982	1983	77-80	1981	1982	1983	77-80	1981	1982	1983
APPAREL	4928	4495	4031	4649	39.0	37.9	38.4	37.3	3104	2752	2393	2754	33.8	31.4	31.3	29.7
HOME FURNISHINGS	3896	3522	3145	3914	30.9	29.7	30.0	31.4	3012	2749	2442	3106	32.8	31.4	31.9	33.5
INDUSTRIAL & OTHER CONSUMER-TYPE PROD	3271	3348	2972	3618	25.9	28.2	28.3	29.0	2793	2932	2593	3227	30.4	33.5	33.9	34.8
EXPORTS	526	490	336	280	4.2	4.2	3.3	2.3	271	319	215	184	3.0	3.7	2.9	2.0
TOTAL END USE	**12621**	**11855**	**10484**	**12461**	**100**	**100**	**100**	**100**	**9180**	**8752**	**7643**	**9271**	**100**	**100**	**100**	**100**

77-80 means the annual average for the years 1977-1980. The 1981, 1982 & 1983 data are for single years only. All data are drawn from the End Use Consumption Summary table on page 159.

a. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically in each case.

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Contents

Feature

Textile Fiber End Use Survey 155, 158-171
- End Use Summary Changes 155
- U.S. End Use Summary 159
- Mill Consumption+Semimanufactured Imports 160
- End Use Versus Available Supply 160
- Summary of Man-Made Fibers & Semimanufactured Imports 161
- End Uses 162-168
  - Apparel Items 162-163
  - Home Furnishing Items 164-165
  - Industrial & Other Consumer Items 166-167
  - Exports of Domestic Products 168
- Notes for End Uses 169-171
  - General 169
  - Apparel Items 169
  - Home Furnishing Items 170
  - Industrial & Other Consumer Items 171

Industry Regulars

Datagram 157

Quarterly Man-Made Fiber Data 172-173
- Filament Yarn Domestic Shipments 172
- Staple+Tow Domestic Shipments 173

Monthly U.S. Man-Made Fiber Imports 174-175
- By Country of Origin 174
- For Consumption 175

Selected U.S. Textile Fiber Data 176

Shipments rebound sharply

Shipments of noncellulosic yarn, staple and tow rose dramatically in August, reversing a three-month slide. Seasonality contributed greatly to the mid-year slump in shipments, yet certain key markets — such as apparel and carpets — hit saturation levels as inventories began to build.

Key products on the upswing —

- Polyester staple+tow. Shipments rose sharply in August, as the 1.5 - 2.5 denier market rose 13%.
- Polyester textile yarn. The 150 denier market rose 21½%. Textured yarn shipments rose 17%.
- Nylon carpet yarn. Shipments rose 11½%. Inventories fell 8%.
- Nylon staple+tow. August shipments were strong, as carpet staple shipments jumped nearly 20%.

Imports of fiber on the rise

Imports of man-made fiber totaled 39.4 million pounds in July, and was the highest monthly import level since May 1973.

For the first seven months of 1984, imports of man-made fiber totaled 185.0 million pounds. This compares to the 1983 January-July level of 110.7 million pounds.

What's driving the fiber import levels higher? Primarily imports of nylon.

More specifically —

- Nylon staple imports rose to 7.7 million pounds in July, up 353% from June. For the first seven months of 1984, these imports are running 54% ahead of the same period last year.
- Nylon yarn imports are running far ahead of last year's levels. For the first seven months, nylon textured yarn imports are 387% ahead of the corresponding 1983 level, and nylon flat yarn imports are 159% above last year's level.
- Nylon waste shipments totaled 21.0 million pounds for the first seven months, 59% above the corresponding 1983 level.

Continued from page 155

SURVEY FIBER COVERAGE

The objective of this survey is to measure the amount of raw fiber required to produce a particular end use item. The quantities of fiber are grouped under general listings, but specific characteristics of each listing should be noted.

The man-made fiber data are presented in two general categories, **Cellulosic**, which includes rayon and acetate, and **Noncellulosic**, which includes nylon, polyester, acrylic, olefin, saran, spandex and textile glass. Except for carpets, no separation of the data by generic type within the end uses is provided. See footnote **(b)** under General Notes on page 169 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters poundages are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation.

Wool data cover both virgin and reprocessed & reused wool.

Many other fibers, such as silk, linen, jute and sisal, are used in various products covered by the survey, but no poundage data for these fibers are included in the end use tables on pages 162-168.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing, are not included (e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the poundages shown have been calculated so as to exclude the waste component inasmuch as possible, as, for example, is the case with the cotton waste in Towels & Toweling (Item 48) and Twine (Item 73).

And third, waste which has been processed into usable spinnable fiber is included in the poundages shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the man-made fiber poundages, is a significant and measured part of the total end use.

OUTLINE AND COVERAGE OF THE SURVEY

The data presented on pages 162-168 show the poundages of the itemized textile fibers consumed in the production of end use products in the United States.

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs, are not included in this survey as they are not manufactured in domestic mills.

The method used for estimating the end uses of man-made fibers differs from that used for the natural fibers. For man-made fibers, the data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products. While in the case of cotton, the data of the National Cotton Council were used extensively, and for wool, government data plus estimates from other trade sources were employed.

END USE VERSUS AVAILABLE SUPPLY

Available supply (mill consumption plus semi manufactured imports) is compared with end use consumption table 4 on page 160. While more specific reasons which affect the correlation between these series are described in subsequent sections, some general remarks are presented below.

Cotton. End use consumption is lower than available supply for most years; the same situation pertains to the National Cotton Council's survey data. Two reasons for this are stated by the Council: a) many small end uses are not included in the survey and b) estimates of materials consumed are based on "typical" cotton yarns and fabrics, not on the actual weights of every type of yarn and fabric consumed in the various end uses.

Timing and inventory changes also play a significant role. For example, some raw cotton correctly reported as "consumed" by the Census Bureau in the calendar year 1982 was not actually incorporated into end products until 1983 because of time lags and inventory fluctuations involved in moving from raw fiber in the bale to a finished garment or other textile product. Similarly, an indeterminate amount of cotton consumed in 1983 was not embodied in finished products until 1984.

As noted, the cotton series presented in this survey are mainly those of the National Cotton Council as published in its annual survey "Cotton Counts Its Customers" (1984 and earlier editions).

Wool. Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool poundages used in Home Furnishings (blankets and carpets) and such Apparel items as Retail Piece Goods and Craft Yarns.

These poundages were deducted from the Available Supply in Table 3, page 160, and residual poundages were then attributed to Apparel Usage in individual apparel items from the years 1977-1983 was calculated by correlating the data of Census reports MA-23A and MQ-22T on, respectively, Apparel and Broad Woven Goods.

Man-Made Fibers. As will be seen, there is relatively good correlation between End Use Consumption and Available Supply.

TABLE 2: U.S. END USE SUMMARY

MILLION POUNDS & PERCENT

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MAN-MADE FIBERS			MAN-MADE FIBER DETAIL						
													CELLULOSIC					NONCELL. & TEXTILE GLASS				
													TOTAL			YARN	STAPLE	TOTAL			YARN	STAPLE
	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	LBS	LBS	%[a]	%[b]	LBS	LBS
APPAREL																						
1977	5135	100	40.9	1735	33.8	51.2	132	2.6	75.0	3268	63.6	36.4	304	5.9	34.4	219	85	2964	57.7	36.6	1456	1508
1978	5023	100	39.2	1683	33.5	52.0	139	2.8	73.9	3201	63.7	34.2	307	6.1	34.5	228	79	2894	57.6	34.1	1444	1450
1979	4825	100	37.0	1696	35.2	51.3	132	2.7	76.3	2997	62.1	31.4	341	7.1	40.7	245	96	2656	55.0	30.5	1359	1297
1980	4728	100	39.0	1652	35.0	53.0	125	2.6	74.0	2951	62.4	33.5	298	6.3	39.9	222	76	2653	56.1	32.9	1306	1347
1981	4495	100	37.9	1595	35.5	54.8	148	3.3	76.3	2752	61.2	31.4	309	6.9	42.7	194	115	2443	54.3	30.4	1191	1252
1982	4031	100	38.4	1511	37.5	56.5	127	3.1	75.1	2393	59.4	31.3	211	5.3	39.9	142	69	2182	54.1	30.7	986	1196
1983	4649	100	37.3	1742	37.5	58.3	153	3.3	75.0	2754	59.2	29.7	229	4.9	39.7	154	75	2525	54.3	29.0	1210	1315
HOME FURNISHINGS																						
1977	3842	100	30.6	905	23.6	26.7	32	0.8	18.2	2905	75.6	32.3	212	5.5	24.0	54	158	2693	70.1	33.2	1072	1621
1978	3996	100	31.2	863	21.6	26.6	36	0.9	19.2	3097	77.5	33.0	238	6.0	26.8	56	182	2859	71.5	33.7	1160	1699
1979	4092	100	31.4	848	20.7	25.6	27	0.7	15.6	3217	78.6	33.7	194	4.7	23.1	48	146	3023	73.9	34.7	1244	1779
1980	3656	100	30.2	802	22.0	25.8	26	0.7	15.4	2828	77.3	32.1	170	4.6	22.7	47	123	2658	72.7	32.9	1189	1469
1981	3522	100	29.7	744	21.1	25.6	29	0.9	14.9	2749	78.0	31.4	156	4.4	21.5	36	120	2593	73.6	32.3	1117	1476
1982	3145	100	30.0	677	21.5	25.3	26	0.9	15.4	2442	77.6	31.9	104	3.3	19.6	26	78	2338	74.3	32.9	1013	1325
1983	3914	100	31.4	776	19.8	26.0	32	0.8	15.7	3106	79.4	33.5	134	3.5	23.3	28	106	2972	75.9	34.2	1319	1653
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1977	3155	100	25.2	528	16.7	15.6	8	0.3	4.5	2619	83.0	29.2	316	10.0	35.8	62	254	2303	73.0	28.4	1753	550
1978	3334	100	26.1	472	14.1	14.6	9	0.3	4.8	2853	85.6	30.4	301	9.0	33.9	66	235	2552	76.6	30.1	1915	637
1979	3486	100	26.8	462	13.3	14.0	8	0.2	4.6	3016	86.5	31.6	271	7.8	32.3	50	221	2745	78.7	31.6	2020	725
1980	3109	100	25.7	412	13.2	13.2	11	0.3	6.5	2686	86.5	30.4	249	8.0	33.3	40	209	2437	78.5	30.2	1805	632
1981	3348	100	28.2	404	12.1	13.9	12	0.3	6.2	2932	87.6	33.5	231	6.9	31.9	42	189	2701	80.7	33.6	2027	674
1982	2972	100	28.3	369	12.4	13.8	10	0.4	5.9	2593	87.5	33.9	195	6.5	36.9	30	165	2398	80.7	33.7	1759	639
1983	3618	100	29.0	377	10.4	12.6	14	0.4	6.9	3227	89.2	34.8	196	5.4	34.0	23	173	3031	83.8	34.9	2178	853
EXPORTS OF DOMESTIC PRODUCTS																						
1977	418	100	3.3	221	52.9	6.5	4	0.9	2.3	193	46.2	2.1	51	12.2	5.8	23	28	142	34.0	1.8	61	81
1978	449	100	3.5	220	49.0	6.8	4	0.9	2.1	225	50.1	2.4	43	9.6	4.8	22	21	182	40.5	2.1	76	106
1979	620	100	4.8	301	48.5	9.1	6	1.0	3.5	313	50.5	3.3	33	5.3	3.9	21	12	280	45.2	3.2	128	152
1980	618	100	5.1	259	42.0	8.0	7	1.0	4.1	352	57.0	4.0	31	5.1	4.1	20	11	321	51.9	4.0	141	180
1981	490	100	4.2	166	33.9	5.7	5	1.0	2.6	319	65.1	3.7	28	5.7	3.9	17	11	291	59.4	3.7	121	170
1982	336	100	3.3	115	34.2	4.4	6	1.8	3.6	215	64.0	2.9	19	5.7	3.6	12	7	196	58.3	2.7	82	114
1983	280	100	2.3	91	32.5	3.1	5	1.8	2.4	184	65.7	2.0	17	6.1	3.0	11	6	167	59.6	1.9	70	97
TOTAL END USE																						
1977	12550	100	100	3389	27.0	100	176	1.4	100	8985	71.6	100	883	7.0	100	358	525	8102	64.6	100	4342	3760
1978	12802	100	100	3238	25.3	100	188	1.5	100	9376	73.2	100	889	6.9	100	372	517	8487	66.3	100	4595	3892
1979	13023	100	100	3307	25.4	100	173	1.3	100	9543	73.3	100	839	6.5	100	364	475	8704	66.8	100	4751	3953
1980	12111	100	100	3125	25.8	100	169	1.4	100	8817	72.8	100	748	6.2	100	329	419	8069	66.6	100	4441	3628
1981	11855	100	100	2909	24.5	100	194	1.7	100	8752	73.8	100	724	6.1	100	289	435	8028	67.7	100	4456	3572
1982	10484	100	100	2672	25.5	100	169	1.6	100	7643	72.9	100	529	5.1	100	210	319	7114	67.8	100	3840	3274
1983	12461	100	100	2986	24.0	100	204	1.6	100	9271	74.4	100	576	4.6	100	216	360	8695	69.8	100	4777	3918

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

The fluctuations of producers' domestic shipments, as well as imports, from year to year are significant. In years when there is a large increase in domestic shipments plus imports of fiber (Available Supply), it is probable that some of the increase went into mill and manufacturers' inventories rather than directly into end uses. Both warehouse inventories of yarn and staple and goods-in-process inventories would be involved. For example, it is likely that some of the large increase in the Available Supply between 1977 and 1978 was absorbed in inventories at various stages of the production process. In a period when Available Supply falls sharply (1979-1980 and 1981-1982, for instance) the movement is reversed. In a period of slower activity, mills and manufacturers reduce their warehouse inventories and work in process to reflect the lower level of activity.

Continued on page 161

TABLE 3: MILL CONSUMPTION+SEMIMANUFACTURED IMPORTS

MILLION POUNDS

YEAR	MAN-MADE FIBERS: MILL CONSUMPTION[a]: CELLULOSIC: YARN	CELLULOSIC: STAPLE[b]	CELLULOSIC: TOTAL	NONCELL.+GLASS FIBER: YARN	NONCELL.+GLASS FIBER: STAPLE[b]	NONCELL.+GLASS FIBER: TOTAL	IM-PORTS[c]	TOTAL	COTTON: MILL CONS[a]	COTTON: IM-PORTS[c]	COTTON: TOTAL	WOOL: MILL CONS[a]	WOOL: Repro-cessed & Reused[d]	WOOL: COTTON SYSTEM[d]	WOOL: IM-PORTS[c]	WOOL: TOTAL	AVAIL-ABLE SUPPLY
1977	351.0	517.2	868.2	4345.2	3674.1	8019.3	127.6	9015.1	3169.8	258.1	3427.9	133.9	16.7	4.1	25.3	180.0	12623.0
1978	363.3	516.4	879.7	4580.8	3767.2	8348.0	169.3	9397.0	3040.4	330.7	3371.1	141.6	16.8	3.0	31.9	193.3	12961.4
1979	356.7	474.3	831.0	4740.2	3874.8	8615.0	119.1	9565.1	3066.4	249.1	3315.5	134.4	17.0	2.5	25.9	179.8	13060.4
1980	325.0	415.7	740.7	4426.0	3593.4	8019.4	111.6	8871.7	3064.4	277.8	3342.2	137.8	10.5	3.8	25.3	177.4	12391.3
1981	283.6	430.7	714.3	4484.0	3505.2	7989.2	141.1	8844.6	2730.8	374.4	3105.2	152.7	8.3	3.2	32.8	197.0	12146.8
1982	206.1	316.0	522.1	3793.3	3213.6	7006.9	143.9	7672.9	2478.9	295.0	2773.9	129.5	5.7	3.0	33.3	171.5	10618.3
1983	231.6	356.8	588.4	4637.2	3962.2	8599.4	196.1	9383.9	2795.7	388.4	3184.1	162.5	8.1	3.3	35.7	209.6	12777.6

NOTE: Glass fiber data include both textile and other types of glass fiber end uses (e.g., reinforced plastics).

a. Mill Consumption is taken from page 38 of the 1984 March/April ***Organon*** plus susequent revisions.

b. Man-Made staple includes waste

c. Imports are taken from page 39 of the March/April issue and comprise semi-manufactured goods; see the footnotes there.

d. These poundages of reprocessed and reused wool, as well as wool consumed on the cotton spinning system, are not included in the mill consumption series for wool (see page 36 of the February 1970 *Organon*). However, they are considered here as part of the available supply of wool as shown in the table below.

TABLE 4: END USE VERSUS AVAILABLE SUPPLY

MILLION POUNDS & PERCENT

FIBERS	1977 AVAIL-ABLE[a]	1977 END USE[b]	1977 %[c]	1978 AVAIL-ABLE[a]	1978 END USE[b]	1978 %[c]	1979 AVAIL-ABLE[a]	1979 END USE[b]	1979 %[c]	1980 AVAIL-ABLE[a]	1980 END USE[b]	1980 %[c]	1981 AVAIL-ABLE[a]	1981 END USE[b]	1981 %[c]	1982 AVAIL-ABLE[a]	1982 END USE[b]	1982 %[c]	1983 AVAIL-ABLE[a]	1983 END USE[b]	1983 %[c]
COTTON	3428	3389	*98.9*	3371	3238	*96.1*	3316	3307	*99.7*	3342	3125	*93.5*	3105	2909	*93.7*	2774	2672	*96.3*	3184	2986	*93.8*
WOOL	180	176	*97.8*	193	188	*97.4*	180	173	*96.1*	177	168	*94.9*	197	194	*98.5*	171	169	*98.8*	210	204	*97.1*
TOTAL COTTON & WOOL	**3608**	**3565**	*98.8*	**3564**	**3426**	*96.1*	**3496**	**3480**	*99.5*	**3519**	**3293**	*93.6*	**3302**	**3103**	*94.0*	**2945**	**2841**	**96.5**	**3394**	**3190**	*94.0*
CELL. - YARN[d]	360	358	*99.4*	373	372	*99.7*	364	364	*100.0*	329	329	*100.0*	289	289	*100.0*	212	210	*99.1*	231	216	*93.5*
- STAPLE[e]	530	525	*99.1*	532	517	*97.2*	485	475	*97.9*	421	419	*99.5*	437	435	*99.5*	322	319	*99.1*	375	360	*96.0*
NONCELL - YARN[d]	3570	3551	*99.5*	3713	3708	*99.9*	3833	3830	*99.9*	3607	3567	*98.9*	3575	3474	*97.2*	2983	2964	*99.4*	3590	3574	*99.5*
- STAPLE[e]	3764	3760	*99.9*	3892	3892	*100.0*	3958	3952	*99.8*	3639	3629	*99.7*	3562	3572	*100.3*	3280	3274	*99.8*	3985	3918	*98.3*
TOTAL MAN-MADE FIBER ABOVE	**8224**	**8194**	*99.6*	**8510**	**8489**	*99.8*	**8640**	**8621**	*99.8*	**7996**	**7944**	*99.3*	**7863**	**7770**	*98.8*	**6797**	**6767**	*99.5*	**8181**	**8068**	*98.6*
TEXTILE GLASS	791	791	*100.0*	887	887	*100.0*	922	922	*100.0*	874	874	*100.0*	982	982	*100.0*	876	876	*100.0*	1203	1203	*100.0*
TOTAL FIBERS ABOVE	**12623**	**12550**	*99.4*	**12961**	**12802**	*98.8*	**13058**	**13023**	*99.7*	**12389**	**12111**	*97.8*	**12147**	**11855**	*97.6*	**10618**	**10484**	*98.7*	12778	12461	*97.5*

a. Available means mill consumption plus the imports of semimanufactured products - from the table above.

b. End Use from the summary table on page 159.

c. End Use as a percentage of Available.

d. Yarn includes monofilaments.

e. Staple includes tow, fiberfill and waste.

TABLE 5: SUMMARY OF MAN-MADE FIBER & SEMIMANUFACTURED IMPORTS

MILLION POUNDS

ITEM	1977	1978	1979	1980	1981	1982	1983
CELLULOSIC FIBERS							
YARN	23.5	25.7	13.3	8.3	10.7	7.0	8.7
STAPLE	57.8	41.1	16.5	10.3	16.8	13.4	13.5
WASTE	0.6	0.4	0.8	0.3	0.5	0.4	0.3
NONCELLULOSIC FIBERS							
YARN - SINGLES							
NYLON - TEXTURED	14.0	4.6	1.0	3.2	3.8	4.7	5.1
- OTHER	34.2	25.0	6.1	3.6	4.0	5.5	2.2
POLYESTER - TEXTURED	26.1	6.1	1.1	0.3	0.8	0.5	7.7
- OTHER	12.7	12.7	7.6	6.7	5.4	5.3	14.8
OTHER - TEXTURED	1.1	0.7	0.1	0.2	0.5	4.4	13.7
- OTHER	2.9	1.2	1.3	1.4	1.6	1.6	2.7
MONOFILAMENTS	1.3	1.6	2.4	4.0	2.6	1.5	1.7
STRIPS, OVER $1/LB	0.2	0.3	0.4	0.2	0.2	0.3	0.5
SUBTOTAL ABOVE	**92.5**	**52.2**	**20.0**	**19.6**	**18.9**	**23.8**	**48.4**
STAPLE[a] - NYLON	9.0	7.3	3.1	2.7	25.7	19.1	46.8
- POLYESTER	5.2	8.2	3.1	1.5	7.0	7.3	23.6
- ACRYLIC	17.0	21.8	16.0	15.9	13.9	12.3	20.3
- OLEFIN	+	0.1	0.1	0.1	1.1	0.6	1.1
- OTHER	21.7	23.1	17.1	15.3	12.7	11.8	9.7
SUBTOTAL ABOVE	**52.9**	**60.5**	**39.4**	**35.5**	**60.4**	**51.1**	**101.5**
WASTE, NOT ADVANCED - NYLON	13.0	14.6	12.8	11.7	25.3	22.2	26.8
- POLYESTER	2.5	5.4	3.3	6.0	18.1	11.2	13.0
- ACRYLIC	3.6	3.3	2.4	2.4	2.9	0.9	0.3
- OTHER	3.2	1.5	1.6	1.0	3.0	2.5	2.7
NOILS & GARNETTED FIBERS	+	+	+	+	0.1	0.1	0.2
OTHER WASTE, ADVANCED	0.9	1.2	1.0	0.6	0.6	0.9	3.1
SUBTOTAL ABOVE	**23.2**	**26.0**	**21.1**	**21.7**	**50.0**	**37.8**	**46.1**
TOTAL FIBER ABOVE[b]	**250.5**	**205.9**	**111.1**	**95.7**	**157.3**	**133.5**	**218.5**
SEMIMANUFACTURES							
SLIVER, TOPS & ROVING	4.8	7.6	6.7	2.8	3.7	2.7	4.9
YARNS, THROWN OR PLIED	3.5	4.2	2.6	2.2	4.8	6.7	10.7
SPUN YARNS	28.0	45.4	25.6	22.9	23.5	26.5	39.0
SEWING THREAD & HANDWORK YARN	3.5	2.5	2.6	2.3	2.8	2.3	3.4
WOVEN FABRICS	67.7	87.8	64.6	67.3	95.4	93.3	123.2
NARROW FABRICS	7.5	9.4	9.0	8.1	8.7	10.1	12.7
KNIT FABRIC	12.6	12.4	8.0	6.0	2.2	2.3	2.2
SUBTOTAL ABOVE	**127.6**	**169.3**	**119.1**	**111.6**	**141.1**	**143.9**	**196.1**
TEXTILE GLASS FIBER	22.0	21.8	10.3	7.3	18.2	14.1	20.0
TOTAL SEMIMANUFACTURES ABOVE[c]	**149.6**	**191.1**	**129.4**	**118.9**	**159.3**	**158.0**	**216.1**
GRAND TOTAL ABOVE	**400.1**	**397.0**	**240.5**	**214.6**	**316.6**	**291.5**	**434.6**

a. Includes grouped filaments.
b. **SOURCE:** U.S. Bureau of the Census
c. **SOURCE:** *Cotton and Wool Situation*, U.S. Department of Agriculture.

For imports of fiber, the data are taken from the monthly summaries in each ***Organon.*** A listing of the commodity numbers used may be found on page 175 of this issue under the monthly import table.

Continued from page 159

UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the poundage of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the poundages of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber.

Two reasons to avoid direct comparison are:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and wool 0.6 square yards per pound. But for man made fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies greatly. Hence, a simple comparison of poundages of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued on page 164

TABLE 6a: APPAREL[a]

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
			TOTAL	CELLULOSIC		NONCELL.			
				YARN	STAPLE	YARN	STAPLE		
TOTAL APPAREL	**1977**	**5135.0**	**3267.8**	**219.1**	**84.4**	**1456.2**	**1508.1**	**1734.7**	**132.5**
	1978	**5023.0**	**3201.2**	**227.6**	**79.0**	**1444.1**	**1450.5**	**1683.1**	**138.7**
	1979	**4825.5**	**2997.3**	**244.8**	**96.4**	**1358.7**	**1297.4**	**1696.2**	**132.0**
	1980	**4728.3**	**2951.0**	**222.2**	**76.2**	**1306.2**	**1346.4**	**1651.9**	**125.4**
	1981	**4495.0**	**2751.5**	**194.3**	**115.0**	**1190.8**	**1251.4**	**1595.0**	**148.5**
	1982	**4031.1**	**2393.1**	**141.9**	**68.8**	**986.2**	**1196.2**	**1510.6**	**127.4**
	1983	**4648.7**	**2754.3**	**153.9**	**74.9**	**1210.3**	**1315.2**	**1741.4**	**153.0**
40 SHEER HOSIERY (W)*	1977	54.7	54.7	--	--	54.7	--	--	--
	1978	60.9	60.9	--	--	60.9	--	--	--
	1979	66.1	66.1	--	--	66.1	--	--	--
	1980	70.7	67.8	--	--	67.8	--	2.9	--
	1981	76.4	69.9	--	--	69.9	--	r6.5	--
	1982	75.0	68.5	--	--	68.5	--	r6.5	--
	1983	84.5	77.2	--	--	77.2	--	7.3	--
19, 41 ANKLETS & SOCKS (MW)*	1977	165.9	129.2	--	0.4	55.9	72.9	34.7	2.0
	1978	178.5	136.3	--	0.3	56.0	80.0	40.2	2.0
	1979	167.1	131.4	--	0.5	52.7	78.2	33.2	2.5
	1980	186.4	151.9	--	0.5	56.9	94.5	32.1	2.4
	1981	190.8	149.1	--	0.7	60.3	88.1	38.9	2.8
	1982	173.0	139.9	--	0.4	51.7	87.8	r30.6	2.5
	1983	144.9	102.6	--	0.5	65.0	37.1	39.3	3.0
8, 29 SWEATERS & RELATED ACCESSORIES (MW)*	1977	158.1	139.0	--	0.7	16.9	121.4	7.6	11.5
	1978	145.4	126.2	--	0.7	10.1	115.4	7.5	11.7
	1979	124.8	103.9	--	0.7	10.2	93.0	6.6	14.3
	1980	137.3	115.8	--	0.7	12.6	103.1	7.9	13.6
	1981	140.0	113.8	--	0.6	0.9	112.3	r10.1	16.1
	1982	119.4	92.7	--	1.0	1.4	90.3	r11.7	15.0
	1983	143.8	104.8	--	1.2	0.4	103.2	21.0	18.0
57 CRAFT & HANDWORK YARNS*	1977	123.1	116.9	--	3.3	--	113.6	4.2	2.0
	1978	130.8	125.0	--	1.7	c	123.3	3.8	2.0
	1979	129.0	121.1	--	0.9	c	120.2	3.7	4.2
	1980	126.0	118.7	c	0.2	c	118.5	3.3	4.0
	1981	100.6	92.9	--	0.7	c	92.2	r3.0	4.7
	1982	98.9	91.9	--	0.6	--	91.3	r2.5	4.5
	1983	104.4	97.4	--	0.1	--	97.3	2.3	4.7
16-18 UNDERWEAR & NIGHTWEAR (M)*	1977	251.7	66.5	--	--	6.3	60.2	184.2	1.0
	1978	254.7	74.6	--	0.3	14.6	59.7	179.1	1.0
	1979	257.6	86.3	--	0.8	21.3	64.2	170.3	1.0
	1980	250.9	104.0	--	0.8	26.2	77.0	145.9	1.0
	1981	225.5	84.9	--	1.1	20.9	62.9	r139.4	1.2
	1982	223.1	79.6	--	--	16.3	63.3	r142.5	1.0
SILK	1983	253.5	96.8	--	--	14.5	82.3	155.7	1.0
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*	1977	242.7	185.9	19.2	2.2	148.7	15.8	55.8	1.0
	1978	258.7	190.3	14.7	3.2	141.7	30.7	67.4	1.0
	1979	240.8	184.1	18.7	2.1	137.5	25.8	55.7	1.0
	1980	209.9	169.0	19.7	0.6	117.0	31.7	39.9	1.0
	1981	202.4	162.0	18.3	c	111.0	32.7	r39.2	1.2
	1982	176.8	136.1	10.9	--	89.4	35.8	r39.7	1.0
SILK	1983	198.3	153.0	12.5	--	105.0	35.5	44.3	1.0
10 31 ROBES & LOUNGEWEAR (MW)*	1977	113.9	91.2	56.3	--	30.4	4.5	20.2	2.5
	1978	133.0	111.1	70.3	c	33.7	7.1	19.9	2.0
	1979	134.2	110.8	60.5	0.9	36.2	13.2	20.9	2.5
	1980	145.7	126.3	63.0	0.4	38.0	24.9	17.0	2.4
	1981	119.3	102.5	44.6	0.2	33.5	24.2	r14.0	2.8
	1982	83.2	67.4	34.5	--	23.7	9.2	r13.5	2.3
SILK	1983	91.8	74.8	39.0	--	22.9	12.9	14.4	2.6

a. For all lettered and general footnotes to this table and the Home Furnishings and Industrial & Other Consumer-Type Products tables, please see pages 169-171.

TABLE 6b: APPAREL[a] *(Continued)*

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
			TOTAL	CELLULOSIC		NONCELL.			
				YARN	STAPLE	YARN	STAPLE		
54a HIGH PILE FABRICS	1977	125.0	125.0	--	0.1	6.8	118.1		
	1978	115.7	115.7	--	--	10.5	105.2	IN	IN
	1979	103.0	103.0	c	0.4	13.5	89.1	ITEM	ITEM
	1980	100.4	100.4	--	0.1	14.3	86.0	54b	54b
	1981	78.6	78.6	--	0.3	13.1	65.2	BELOW	BELOW
	1982	64.1	64.1	--	--	7.0	57.1		
	1983	73.8	73.8	--	0.6	15.5	57.7		
54b FABRICS FOR LINING*	1977	226.8	152.5	93.4	7.2	25.3	26.6	70.8	3.5
	1978	218.7	150.1	92.3	6.6	23.8	27.4	65.6	3.0
	1979	206.7	146.4	86.8	8.7	24.0	26.9	57.8	2.5
	1980	182.6	123.6	78.0	7.5	17.0	21.1	56.6	2.4
	1981	199.0	144.7	92.7	3.4	19.2	29.4	r51.5	2.8
	1982	144.5	100.6	70.1	1.0	15.7	13.8	r41.4	2.5
	1983	146.0	99.7	66.7	1.0	24.0	8.0	43.4	2.9
43 APPAREL LACE (W)*	1977	8.0	6.5	3.5	--	3.0	--	1.5	--
	1978	10.0	8.5	3.7	--	4.8	--	1.5	--
	1979	6.8	5.3	1.7	--	3.6	--	1.5	--
	1980	6.7	5.2	--	--	5.2	--	1.5	--
	1981	8.0	6.5	--	--	6.5	--	1.5	--
	1982	8.7	7.2	--	--	7.2	--	1.5	--
	1983	8.4	6.9	--	--	6.9	--	1.5	--
55 RETAIL PIECE GOODS*	1977	459.1	330.0	6.0	6.0	199.0	119.0	124.1	5.0
	1978	405.5	291.0	5.0	5.0	161.0	120.0	110.5	4.0
	1979	348.0	250.0	4.0	4.0	121.0	121.0	94.0	4.0
	1980	316.7	230.0	3.0	3.0	102.0	122.0	83.7	3.0
	1981	310.5	229.5	2.5	2.0	97.0	128.0	77.4	3.6
	1982	288.8	217.3	3.5	1.8	83.0	129.0	r68.3	3.2
	1983	275.0	210.6	3.0	1.5	81.1	125.0	61.2	3.2
56a NARROW FABRICS*	1977	42.9	23.3	5.7	0.6	13.4	3.6	19.6	--
	1978	54.9	29.9	5.6	0.2	16.0	8.1	25.0	--
	1979	48.4	25.4	5.1	0.4	13.1	6.8	23.0	--
	1980	52.8	29.6	7.5	0.3	17.2	4.6	23.2	--
	1981	46.6	21.6	5.2	--	14.0	2.4	25.0	--
	1982	40.3	17.8	0.9	--	15.3	1.6	23.0	--
	1983	49.7	24.7	1.7	--	20.8	2.2	25.0	--
TOPWEIGHT FABRICS*	1977	982.0	629.0	25.0	43.0	206.0	355.0	351.0	2.0
	1978	1041.3	689.0	24.0	42.0	263.0	360.0	349.8	2.5
	1979	1048.6	686.0	42.0	49.0	265.0	330.0	360.1	2.5
	1980	1008.7	633.0	32.0	41.0	250.0	310.0	373.3	2.4
	1981	936.5	558.0	20.0	70.0	r188.0	280.0	r375.7	2.8
	1982	850.2	456.0	14.0	40.0	r122.0	280.0	r392.1	2.1
	1983	1055.0	587.0	23.0	40.0	174.0	350.0	465.0	3.0
BOTTOMWEIGHT FABRICS*	1977	2097.0	1212.0	10.0	18.0	689.0	495.0	783.0	102.0
	1978	1931.8	1088.0	12.0	19.0	647.0	410.0	734.3	109.5
	1979	1860.3	966.0	26.0	28.0	592.0	320.0	796.8	97.5
	1980	1860.6	970.0	19.0	21.0	580.0	350.0	797.4	93.2
	1981	1788.0	926.0	11.0	31.0	r554.0	330.0	r751.5	110.5
	1982	1625.0	844.0	8.0	21.0	r482.0	r333.0	r687.7	93.3
	1983	1969.0	1038.0	8.0	30.0	600.0	400.0	817.4	113.6
OTHER APPAREL & ACCESSORIES (MW)*	1977	84.1	6.1	--	2.9	0.8	2.4	78.0	c
	1978	83.1	4.6	--	c	1.0	3.6	78.5	c
	1979	84.1	11.5	--	c	2.5	9.0	72.6	c
	1980	72.9	5.7	--	0.7	2.0	3.0	67.2	c
	1981	72.8	11.5	--	5.0	2.5	4.0	r61.3	c
	1982	59.6	10.0	--	3.0	3.0	4.0	r49.6	c
SILK, LINEN	1983	50.6	7.0	--	--	3.0	4.0	43.6	c

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

TABLE 7a: HOME FURNISHINGS[a]

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
			TOTAL	CELLULOSIC		NONCELL.			
				YARN	STAPLE	YARN	STAPLE		
TOTAL HOME FURNISHINGS	**1977**	**3842.3**	**2904.7**	**54.2**	**157.9**	**1072.1**	**1620.5**	**905.6**	**32.0**
	1978	**3995.7**	**3097.4**	**56.3**	**182.1**	**1160.2**	**1696.8**	**863.0**	**35.3**
	1979	**4091.7**	**3216.8**	**48.1**	**146.3**	**1244.0**	**1778.4**	**848.0**	**26.9**
	1980	**3656.0**	**2828.3**	**47.3**	**122.4**	**1189.2**	**1469.4**	**801.9**	**25.8**
GLASS 1977-1983	**1981**	**3522.2**	**2749.0**	**35.7**	**119.5**	**1117.3**	**1476.5**	**744.5**	**28.7**
18.0, 16.5, 15.4,	**1982**	**3145.1**	**2442.5**	**26.0**	**78.0**	**1013.3**	**1325.2**	**676.6**	**26.0**
12.5, 12.7, 8.8, 12.7	**1983**	**3914.3**	**3106.2**	**27.7**	**106.5**	**1318.8**	**1653.2**	**776.1**	**32.0**
45 BEDSPREADS & QUILTS*	1977	147.4	65.1	7.5	5.1	20.5	32.0	82.3	--
	1978	138.2	74.5	3.5	6.0	25.0	40.0	63.7	--
	1979	137.3	76.5	3.0	3.0	23.5	47.0	60.8	--
	1980	128.2	73.0	5.4	2.1	15.5	50.0	55.2	--
	1981	132.3	82.6	4.9	3.1	15.7	r58.9	r49.7	--
	1982	123.3	76.7	3.8	2.4	14.0	r56.5	r46.6	-
	1983	139.8	91.4	6.0	6.2	16.0	63.2	48.4	--
46 BLANKETS & BLANKETING*	1977	130.3	115.7	0.2	--	4.8	110.7	8.8	5.8
	1978	129.2	114.7	0.1	2.0	4.7	107.9	8.5	6.0
	1979	112.1	100.3	0.1	2.0	4.1	94.1	7.3	4.5
	1980	109.1	97.2	--	2.0	3.5	91.7	7.9	4.0
	1981	90.5	78.9	--	0.9	3.5	74.5	7.1	4.5
	1982	79.2	68.0	--	c	2.5	65.5	7.2	4.0
	1983	69.9	57.2	--	c	1.0	56.2	8.2	4.5
47 SHEETS & OTHER BEDDING*	1977	525.2	242.1	0.7	13.7	19.3	208.4	283.1	--
	1978	506.8	237.4	2.4	13.6	18.1	203.3	269.4	--
	1979	508.5	254.1	3.0	9.0	22.2	219.9	254.4	--
	1980	507.9	263.8	2.3	9.4	25.9	226.2	244.1	--
	1981	512.1	299.5	2.6	13.8	34.0	249.1	r212.6	--
	1982	424.5	243.4	3.9	10.6	43.2	185.7	r181.1	--
LINEN	1983	500.1	299.3	0.5	11.6	79.6	207.6	200.8	--
48 TOWELS & TOWELING*	1977	308.6	28.5	--	0.5	--	28.0	280.1	--
	1978	308.2	27.9	--	0.5	--	27.4	280.3	--
	1979	334.3	34.3	--	0.5	c	33.8	300.0	--
	1980	328.5	35.3	--	0.9	c	34.4	293.2	--
	1981	326.7	32.6	--	0.9	0.3	31.4	294.1	--
	1982	306.6	28.7	--	0.6	0.8	27.3	277.9	--
LINEN, RAMIE	1983	375.7	36.0	--	0.3	1.7	34.0	339.7	--
56b NARROW FABRICS*	1977	5.7	1.3	0.5	--	0.8	c	4.4	--
	1978	7.2	2.5	1.4	--	0.8	0.3	4.7	--
	1979	6.2	1.9	0.6	--	0.9	0.4	4.3	--
	1980	5.3	1.4	0.2	0.1	0.6	0.5	3.9	--
	1981	6.1	2.3	--	--	0.9	1.4	3.8	--
	1982	5.0	1.8	--	--	0.4	1.4	3.2	--
	1983	5.8	2.1	--	--	0.3	1.8	3.7	--

a. For all lettered and general footnotes to this table, please see pages 169-171.

Continued from page 161

LIMITATIONS OF THE SURVEY RESULTS

The statistical results of an end use survey can be only approximations at best. But when the data are viewed as one fiber relative to another, and not as absolute values, then they may be regarded as measuring the long-term trend results of competition between the fibers.

An additional note, the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small poundages of fibers in such end uses as Apparel Lace (Item 43) and still allow the compilation to add arithmetically.

TABLE 7b: HOME FURNISHINGS[a] *(Continued)*

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
				CELLULOSIC		NONCELL.			
			TOTAL	YARN	STAPLE	YARN	STAPLE		
50 TOTAL CARPETS & RUGS*	1977	2011.2	1984.7	c	1.0	881.2	1102.5	13.7	12.8
	1978	2178.1	2149.1	--	0.9	970.4	1177.8	15.8	13.2
	1979	2270.7	2243.2	--	0.6	1038.5	1204.1	16.6	10.9
STEEL	1980	1926.0	1900.7	--	0.2	1001.8	898.7	14.9	10.4
SEE DETAIL IN	1981	1837.5	1814.0	--	0.3	918.4	r895.3	r12.0	11.5
ITEMS 50a & b	1982	1711.4	1689.7	--	0.3	834.2	r855.2	11.2	10.5
FOLLOWING	1983	2206.0	2179.5	--	0.2	1064.6	1114.7	13.6	12.9
50a FACE YARNS*	1977	1796.4	1780.7	--	1.0	684.8	1094.9	2.9	12.8
	1978	1938.1	1921.7	--	0.9	756.7	1164.1	3.2	13.2
	1979	2009.0	1994.4	--	0.6	817.8	1176.0	3.7	10.9
	1980	1686.1	1672.7	--	0.2	804.0	868.5	3.0	10.4
NON-ADD	1981	1603.6	1586.9	--	0.3	723.1	r863.5	r5.2	11.5
SEE DETAIL	1982	1486.7	1470.5	--	0.3	649.5	r820.7	r5.7	10.5
IN FOOTNOTE	1983	1961.2	1940.7	--	0.2	865.8	1074.7	7.6	12.9
50b BACKING*	1977	214.8	204.0	c	--	196.4	7.6	10.8	--
	1978	240.0	227.4	--	--	213.7	13.7	12.6	--
	1979	261.7	248.8	--	--	220.7	28.1	12.9	--
	1980	239.9	228.0	--	--	197.8	30.2	11.9	--
GLASS, JUTE, PAPER	1981	233.9	227.1	--	--	195.3	31.8	r6.8	--
NON-ADD	1982	224.7	219.2	--	--	184.7	34.5	r5.5	--
SEE ITEM 50	1983	244.8	238.8	--	--	198.8	40.0	6.0	--
51 CURTAINS*	1977	74.0	62.0	1.8	16.3	23.3	20.6	12.0	--
	1978	88.7	78.2	3.8	19.1	25.5	29.8	10.5	--
ALSO SEE ITEM 52	1979	72.9	62.3	1.4	10.6	23.7	26.6	10.6	--
	1980	89.5	80.1	4.0	7.5	28.4	40.2	9.4	--
GLASS 1977-1983	1981	82.2	73.4	5.6	6.8	25.2	35.8	8.8	--
0.2, 0.1, 0,	1982	61.3	53.3	1.3	5.3	18.3	28.4	8.0	--
0, 0, 0, 0	1983	76.7	68.2	1.2	10.4	25.1	31.5	8.5	--
52 DRAPERY & UPHOLSTERY*	1977	587.0	379.8	41.5	121.0	108.1	109.2	193.8	13.4
	1978	587.2	390.3	42.5	138.0	103.4	106.4	180.8	16.1
	1979	575.8	398.5	37.5	115.0	112.6	133.4	165.8	11.5
SILK, LINEN, BURLAP	1980	487.9	328.8	34.1	94.4	94.7	105.6	147.7	11.4
GLASS 1977-1983	1981	468.0	322.7	21.4	91.4	103.5	106.4	132.6	12.7
10.2, 6.9, 7.6,	1982	376.5	245.2	15.9	57.7	79.4	92.2	119.8	11.5
3.6, 3.7, 3.1, 3.8	1983	463.9	315.3	17.7	76.9	104.3	116.4	134.0	14.6
OTHER HOME FURNISHINGS*	1977	52.9	25.5	2.0	0.3	14.1	9.1	27.4	--
	1978	52.1	22.8	2.6	2.0	12.3	5.9	29.3	--
	1979	73.9	45.7	2.5	5.6	18.5	19.1	28.2	--
LINEN	1980	73.6	48.0	1.3	5.8	18.8	22.1	25.6	--
GLASS 1977-1983	1981	66.8	43.0	1.2	2.3	15.8	23.7	23.8	--
7.6, 9.5, 7.8,	1982	57.3	35.7	1.1	1.1	20.5	13.0	21.6	--
8.9, 9.0, 5.7, 9.9	1983	76.4	57.2	2.3	0.9	26.2	27.8	19.2	--

Noncellulosic yarn includes glass fiber.

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

TABLE 8a: INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS[a]

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
			TOTAL	CELLULOSIC		NONCELL.			
				YARN	STAPLE	YARN	STAPLE		
TOTAL INDUSTRIAL & OTHER CONSUMER	**1977**	**3154.6**	**2619.1**	**62.1**	**254.3**	**1752.6**	**550.1**	**527.5**	**8.0**
	1978	**3334.2**	**2853.4**	**66.7**	**234.8**	**1914.8**	**637.1**	**471.8**	**9.0**
	1979	**3485.7**	**3015.6**	**50.4**	**220.5**	**2019.7**	**725.0**	**461.6**	**8.5**
	1980	**3109.1**	**2686.1**	**39.8**	**209.2**	**1804.8**	**632.3**	**412.3**	**10.7**
GLASS: 1977-1983	**1981**	**3347.5**	**2931.8**	**41.4**	**188.8**	**2027.6**	**674.0**	**403.9**	**11.8**
773.3, 870.2, 907.2,	**1982**	**2972.1**	**2593.2**	**30.1**	**165.2**	**1759.4**	**638.5**	**368.6**	**10.3**
861.8, 951.1, 866.8, 1190.3	**1983**	**3617.9**	**3227.3**	**22.5**	**173.3**	**2178.2**	**853.3**	**376.6**	**14.0**
56c NARROW FABRICS*	1977	89.0	69.5	0.2	--	69.3	c	19.5	--
	1978	95.1	77.8	0.3	0.5	76.7	0.3	17.3	--
	1979	95.2	79.5	0.2	c	79.0	0.3	15.7	--
	1980	86.7	71.9	1.0	--	68.1	2.8	14.8	--
	1981	91.5	77.8	3.4	--	74.0	0.4	13.7	--
	1982	87.4	74.9	3.1	--	70.5	1.3	12.5	--
SILK, LINEN	1983	100.8	88.8	1.0	--	86.6	1.2	12.0	--
61 MEDICAL, SURGICAL & SANITARY*	1977	317.7	219.9	--	178.0	22.6	19.3	97.8	--
	1978	325.3	230.0	--	165.0	23.5	41.5	95.3	--
	1979	359.0	259.9	--	155.0	24.5	80.4	99.1	--
	1980	343.3	253.2	--	141.7	31.6	79.9	90.1	--
	1981	336.2	248.5	--	122.1	38.1	88.3	87.7	--
	1982	324.8	234.6	--	106.2	39.9	88.5	r90.2	--
	1983	339.1	250.3	--	114.3	46.5	89.5	88.8	--
63-64 TRANSPORTATION FABRIC*	1977	78.2	49.5	0.5	5.8	13.3	29.9	28.7	--
	1978	66.4	45.4	2.9	6.5	16.4	19.6	21.0	--
	1979	59.0	42.5	0.6	2.9	18.8	20.2	16.5	--
	1980	48.5	37.8	--	1.1	16.5	20.2	10.7	--
	1981	62.6	52.8	--	0.5	22.2	30.1	9.8	--
	1982	47.6	38.7	--	1.4	22.8	14.5	r8.9	--
	1983	63.5	53.5	--	0.6	32.3	20.6	10.0	--
65 TIRES*	1977	569.6	562.9	35.3	--	527.6	--	6.7	--
	1978	595.5	589.6	37.0	--	552.6	--	5.9	--
	1979	572.1	565.9	25.7	--	540.2	--	6.2	--
STEEL - SEE FOOTNOTE	1980	418.4	413.0	20.5	--	392.5	--	5.4	--
GLASS: 1977-1983	1981	428.8	424.1	18.9	--	405.2	--	4.7	--
25.5, 29.0, 27.4,	1982	359.1	355.2	12.5	--	342.7	--	r3.9	--
22.0, 23.7, 23.6, 24.2	1983	360.0	356.0	11.0	--	345.0	--	4.0	--
66 HOSE*	1977	44.0	37.5	14.0	--	15.6	7.9	6.5	--
	1978	48.5	43.5	16.0	--	18.5	9.0	5.0	--
	1979	52.5	47.2	15.5	--	19.9	11.8	5.3	--
	1980	43.2	38.7	11.9	--	18.3	8.5	4.5	--
	1981	47.3	42.9	11.5	--	21.7	9.7	r4.4	--
	1982	28.8	26.3	7.0	--	15.5	3.8	r2.5	--
LINEN	1983	27.7	25.6	6.5	--	16.5	2.6	2.1	--
67 BELTING*	1977	74.4	54.4	3.2	--	37.1	14.1	20.0	--
	1978	70.8	57.4	2.0	0.2	37.1	18.1	13.4	--
	1979	91.6	75.9	1.7	0.2	44.7	29.3	15.7	--
	1980	62.4	50.5	1.0	0.7	34.5	14.3	11.9	--
GLASS: 1977-1983	1981	66.6	54.1	2.4	1.0	37.7	13.0	r12.5	--
0.1, 0.1, 0,	1982	48.5	37.8	1.8	0.5	26.7	8.8	r10.7	--
0, 0, 0, 0	1983	53.9	44.5	1.9	--	28.0	14.6	9.4	--
69.77 ELECTRICAL & REINFORCED PLASTICS*	1977	586.3	561.3	--	--	561.3	--	25.0	--
	1978	645.2	620.2	c	--	620.0	0.2	25.0	--
	1979	679.6	654.6	0.2	--	654.2	0.2	25.0	--
SILK, LINEN, JUTE	1980	593.4	568.4	--	--	568.4	c	25.0	--
GLASS: 1977-1983	1981	613.4	588.4	c	--	588.3	0.1	25.0	--
555.7, 614.6, 648.0,	1982	486.8	461.8	--	--	461.8	c	25.0	--
559.8, 582.3, 455.2, 632.7	1983	662.6	637.6	--	--	637.6	c	25.0	--
70 FELTS*	1977	20.1	11.3	--	3.2	2.0	6.1	1.8	7.0
	1978	25.3	15.8	--	6.1	2.3	7.4	1.5	8.0
	1979	26.5	17.6	--	5.3	5.2	7.1	1.4	7.5
	1980	28.1	17.0	--	3.4	4.8	8.8	1.4	9.7
	1981	27.0	14.8	--	4.0	5.2	5.6	1.4	10.8
	1982	20.2	9.6	--	--	4.6	5.0	1.3	9.3
	1983	27.0	12.7	--	3.5	3.9	5.3	1.3	13.0

a. For all lettered and general footnotes to this table, please see pages 169-171.

TABLE 8b: INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS[a]
(Continued)

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
				CELLULOSIC		NONCELL.			
			TOTAL	YARN	STAPLE	YARN	STAPLE		
71 FILTRATION*	1977	40.9	35.0	--	4.2	8.0	22.8	5.9	--
CIGARETTE FILTRATION -	1978	44.6	38.5	--	4.4	8.8	25.3	6.1	--
SEE FOOTNOTE	1979	46.0	40.8	--	3.3	10.5	27.0	5.2	--
	1980	47.8	42.2	--	4.0	8.4	29.8	5.6	--
GLASS: 1977-1983	1981	39.6	34.0	--	4.1	10.1	19.8	5.6	--
3.8, 5.0, 6.0,	1982	35.9	30.9	--	3.7	9.6	17.6	5.0	--
4.3, 5.0, 4.0, 5.0	1983	39.2	34.0	--	1.3	8.8	23.9	5.2	--
72 SEWING THREAD*	1977	116.3	56.2	0.3	4.5	39.4	12.0	60.1	--
	1978	116.6	61.4	0.2	4.3	42.2	14.7	55.2	--
	1979	111.3	62.6	0.1	3.7	45.7	13.1	48.7	--
	1980	111.9	64.7	c	5.6	46.2	12.9	47.2	--
	1981	135.2	73.7	c	8.0	49.5	16.2	r61.5	--
	1982	105.5	60.6	c	7.1	40.0	13.5	r44.9	--
SILK, LINEN	1983	123.1	76.3	c	7.6	50.0	18.7	46.8	--
73 ROPE, CORDAGE,	1977	155.6	122.4	2.2	1.3	112.9	6.0	33.2	--
FISHLINE, ETC.*	1978	171.5	140.1	2.0	1.0	126.4	10.7	31.4	--
	1979	183.8	154.1	1.0	2.1	147.1	3.9	29.7	--
	1980	161.7	134.6	0.8	0.9	130.6	2.3	27.1	--
	1981	172.4	148.2	1.8	0.7	137.4	8.3	24.2	--
SISAL, LINEN,	1982	162.5	139.3	1.0	0.8	126.6	10.9	23.2	--
JUTE, SILK	1983	176.3	152.2	0.8	0.6	138.3	12.5	24.1	--
74 BAGS & BAGGING*	1977	53.3	46.0	--	--	45.8	0.2	7.3	--
	1978	51.8	44.5	--	--	44.5	--	7.3	--
	1979	62.2	55.0	--	--	53.6	1.4	7.2	--
	1980	67.2	60.4	--	--	60.4	--	6.8	--
	1981	68.2	61.6	--	--	61.6	--	6.6	--
	1982	68.8	62.6	--	--	62.6	--	6.2	--
JUTE	1983	73.1	67.5	--	--	67.5	--	5.6	--
75 COATED &	1977	169.7	102.0	--	17.4	28.5	56.1	67.7	--
PROTECTIVE	1978	170.3	107.4	--	10.6	36.8	60.0	62.9	--
FABRICS*	1979	167.3	113.8	0.1	10.2	40.9	62.6	53.5	--
	1980	175.7	124.2	0.5	10.5	33.3	79.9	51.5	--
GLASS: 1977-1983	1981	173.0	124.7	--	10.4	33.1	81.2	48.3	--
4.0, 4.0, 4.0,	1982	164.7	120.4	--	7.1	42.3	71.0	44.3	--
3.0, 4.0, 3.0, 4.0	1983	227.9	181.9	--	10.6	50.2	121.1	46.0	--
76 PAPER & TAPE	1977	58.6	51.2	1.4	6.5	42.6	0.7	7.4	--
REINFORCING*	1978	52.0	45.4	1.5	3.0	40.4	0.5	6.6	--
	1979	46.7	41.6	1.2	c	40.0	0.4	5.1	--
JUTE	1980	40.7	36.2	1.3	c	34.7	0.2	4.5	--
GLASS: 1977-1983	1981	41.8	38.0	c	0.9	36.6	0.5	3.8	--
38.5, 39.5, 39.5,	1982	36.1	33.1	c	0.9	29.9	2.3	3.0	--
32.7, 36.0, 28.5, 33.5	1983	39.2	35.8	c	0.4	34.1	1.3	3.4	--
79a FIBERFILL,	1977	261.7	261.7	--	7.7	--	254.0	--	--
STUFFING	1978	268.1	268.1	--	4.8	--	263.3	--	--
& FLOCK*	1979	311.2	311.2	--	5.5	--	305.7	--	--
	1980	254.9	254.9	--	6.3	--	248.6	--	--
	1981	293.5	293.5	--	10.7	--	282.8	--	--
	1982	277.2	277.2	--	7.2	--	270.0	--	--
	1983	331.7	331.7	--	7.4	--	324.3	--	--
79b UNALLOCATED	1977	83.5	83.5	--	9.5	--	74.0	--	--
NONWOVENS*	1978	96.7	96.7	--	10.9	--	85.8	--	--
	1979	120.0	120.0	--	14.8	--	105.2	--	--
	1980	95.4	95.4	--	14.1	--	81.3	--	--
	1981	81.6	81.6	--	12.0	--	69.6	--	--
	1982	90.4	90.4	--	9.2	--	81.2	--	--
	1983	136.6	136.6	--	6.9	--	129.7	--	--
MISCELLANEOUS	1977	435.7	294.8	5.0	16.2	226.6	47.0	139.9	1.0
INDUSTRIAL &	1978	490.5	371.6	4.8	17.5	268.6	80.7	117.9	1.0
CONSUMER-TYPE	1979	501.7	373.4	4.1	17.5	295.4	56.4	127.3	1.0
PRODUCTS*	1980	529.8	423.0	2.8	20.9	356.5	42.8	105.8	1.0
GLASS: 1977-1983	1981	668.8	573.1	3.4	14.4	506.9	48.4	94.7	1.0
145.7, 178.0, 182.3,	1982	627.8	539.8	4.7	21.1	463.9	50.1	r87.0	1.0
240.1, 318.3, 352.5, 490.9	1983	836.2	742.3	1.3	20.1	632.9	88.0	92.9	1.0

Noncellulosic yarn includes glass fiber.

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

TABLE 9: EXPORTS OF DOMESTIC PRODUCTS[a]

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS[b]					COTTON	WOOL
			TOTAL	CELLULOSIC		NONCELL.			
				YARN	STAPLE	YARN	STAPLE		
TOTAL EXPORTS OF DOMESTIC PRODUCTS	**1977**	**417.7**	**192.7**	**23.2**	**28.2**	**60.8**	**80.5**	**220.9**	**4.1**
	1978	**448.8**	**225.2**	**22.0**	**21.5**	**76.0**	**105.7**	**219.8**	**3.8**
	1979	**620.4**	**313.4**	**21.0**	**12.0**	**128.6**	**151.8**	**301.3**	**5.7**
	1980	**617.5**	**351.8**	**20.0**	**10.8**	**141.0**	**180.0**	**259.3**	**6.4**
	1981	**489.9**	**318.6**	**17.2**	**10.3**	**121.0**	**170.1**	**165.8**	**5.5**
	1982	**336.2**	**215.0**	**11.7**	**6.9**	**82.5**	**113.9**	**114.9**	**6.3**
	1983	**279.6**	**183.9**	**11.0**	**6.0**	**70.0**	**96.9**	**90.6**	**5.1**
80 YARN, THREAD, ETC*	1977	59.6	39.5	e	9.4	e	30.1	16.9	3.2
	1978	72.3	37.7	e	3.5	e	34.2	32.0	2.6
	1979	94.2	55.8	e	4.0	e	51.8	34.2	4.2
	1980	105.1	53.3	e	3.3	e	50.0	47.0	4.8
	1981	103.9	62.2	e	3.9	e	58.3	38.1	3.6
	1982	75.2	40.2	e	2.5	e	37.7	30.1	4.9
	1983	70.5	35.3	e	2.0	e	33.3	31.2	4.0
81 WOVEN & KNIT FABRIC*	1977	358.1	153.2	23.2	18.8	60.8	50.4	204.0	0.9
	1978	376.5	187.5	22.0	18.0	76.0	71.5	187.8	1.2
	1979	526.2	257.6	21.0	8.0	128.6	100.0	267.1	1.5
	1980	512.4	298.5	20.0	7.5	141.0	130.0	212.3	1.6
	1981	386.0	256.4	17.2	6.4	121.0	111.8	127.7	1.9
	1982	261.0	174.8	11.7	4.4	82.5	76.2	84.8	1.4
	1983	209.1	148.6	11.0	4.0	70.0	63.6	59.4	1.1
82 TIRE CORD & CORD FABRIC*	1977								
	1978								
	1979				INCLUDED IN TIRES (END USE 65)				
	1980								
	1981								
	1982								
	1983								

a. For all lettered and general footnotes to this table, please see pages 169-171.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 169.

These exports do not duplicate the end use poundages that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of man-made fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

These data agree with the corresponding figures on page 39 of the March 1983 *Organon*, as revised.

80. YARN, THREAD, ETC: Consists of sliver, tops & roving; plied, thrown and spun yarn, sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC: Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric. See footnote g on page 39 of the March 1983 *Organon*.

82. TIRE CORD & CORD FABRIC: Data shown in this series in previous *Organon* issues have been incorporated into Item 65, Tires. See footnote 65 on page 166.

GENERAL NOTES FOR END USE TABLES ON PAGES 162-168.

Units are in million pounds.

-- Means that little, or none, of the fiber is used.

* When an asterisk appears, there is a footnote at the end of the table.

• Means a significant revision in the 1977-1983 data series compared with the corresponding data shown in the November 1983 *Organon* issue. Earlier years' data on the new basis are not available.

a. This letter in the title of each table refers the reader to these notes.

b. Man-made fiber end use in these tables is divided between Cellulosic (rayon+acetate fibers) and Noncellulosic (nylon, polyester, acrylic, olefin, saran, spandex and textile glass fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 171. All textile glass fiber is tabulated as yarn. Certain waste poundages, which are tabulated with staple, are included; see text on page 158.

The noncellulosic fibers included in this survey, for one or more years, are the acrylic, aramid, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester, saran, spandex and vinyon fibers.

c. Means less than 50,000 pounds, i.e., nominal.

d. The staple data are tabulated in the yarn column.

e. The yarn data are tabulated in the staple column.

r. This datum shows a significant revision compared with the November 1983 *Organon* data.

When textile glass fiber is included in an end use, the word "Glass" appears in the lower left corner of the end use box, together with the annual consumption data for 1977-1983. These glass fiber poundages are included with noncellulosic yarn in that end use and in the section totals.

When silk, linen, jute, sisal, etc., are consumed in an end use, in addition to cotton, wool and the man-made fibers, the fiber is named in the middle left of the end use box. But no poundage data for such fibers are included in either such end use or in the section totals.

As described in the footnotes to Items 54a and 54b above, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS PAGES 162-163.

For all lettered and general footnotes to this table, see notes above.

40. SHEER HOSIERY (W): Full-fashioned & seamless full length, pantyhose, knee-highs and surgical hosiery. Bodywear is in Items 35-39.

19, 41. ANKLETS & SOCKS (MW): Men's and women's foot socks, anklets and nonsheer knee-high hose. Also includes men's midcalf and surgical hose.

8, 29. SWEATERS (MW): Knitted sweater shirts, coats, jackets and related accessories. Also note Item 57.

57. CRAFT & HANDWORK YARNS: Yarn and thread for crocheting, darning, embroidery, mending, hand knitting, etc. Does not include sewing thread (Item 72). Olefin yarn for macrame is in Miscellaneous Industrial.

16-18. UNDERWEAR & NIGHTWEAR (M): Undershirts, shorts & briefs, sleep coats, pajamas, nightshirts, thermal underwear, etc.

35-39. UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS: Underwear and nightwear component includes full and half slips, panties, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, sleep & lounging pajamas, sleep coats, peignoir & robe sets with nightgowns or pajamas, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations component includes bandeaux, corsets & girdles, combination & one-piece garments, garter belts, two-way stretch and surgical & maternity foundation garments.

10, 31. ROBES & LOUNGEWEAR (MW): Men's & boys' beach & bathrobes, dressing gowns and smoking jackets; and women's beach- & bathrobes and housecoats.

54a. HIGH PILE FABRICS: All applications (Apparel, Home Furnishings and Industrial). Apparel shell fabrics and "surface lining" garment items are included.

54b. FABRICS FOR LINING: All man-made fiber types except high pile fabrics (Item 54a), lining type fabrics sold as retail piece goods (see Item 55) and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other ConsumerType). The apparel lining component of this series includes main linings, interlinings, zip-in linings (except pile), linings for pockets and waistbands as well as the acetate and nylon tricot used for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and nonwoven fabrics.

43. APPAREL LACE: Nets and veilings.

55. RETAIL PIECE GOODS: Mainly women's apparel-type fabrics but all other types of apparel fabrics are included in addition to fabrics destined for apparel linings and home furnishings application.

56a. NARROW FABRICS: ELASTIC AND NONELASTIC TYPES. The "narrow woven goods" made by slicing thermoplastic fiber broad woven fabrics with a hot knife to produce fused-edge narrow fabrics are not included here. **NARROW FABRIC** poundages for home furnishings and industrial uses are shown in those sections.

TOPWEIGHT FABRICS: All shirts, blouses, lightweight dress and other lightweight fabrics. The fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are in Item 55.

BOTTOMWEIGHT FABRICS: Pants, sportswear, tailored clothing, career apparel and other heavier weight fabrics. The fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are in Item 55.

OTHER APPAREL: Men's & women's work gloves and handkerchiefs. Man-made fiber used for knitted accessories such as scarves, mufflers, gloves, caps, etc., is in Items 8 & 29.

NOTES FOR HOME FURNISHING ITEMS
PAGES 164-165

For all lettered and general footnotes to this table, see page 152.

HOME FURNISHINGS: Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the poundages tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the man-made fibers, however, stuffing & fiberfill is tabulated in the Industrial section. Note text page 158 regarding the inclusion of certain man-made fiber waste poundages here. Certain felt poundages are in Item 70.

45. BEDSPREADS: Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell; quilted pads are in Item 47.

46. BLANKETS & BLANKETING Woven, knitted, needle-punched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizable poundages of rayon, acrylic, nylon & wool waste are included here.

47. SHEETS: Pillowcases. **OTHER BEDDING:** Outside cover of quilted pads, mattress pads, mattresses & innersprings, civilian cots and sleeping bags. Mattress felts are in Item 70. The man-made staple poundages here are mainly polyester for sheets and rayon & polyester for bed ticking. The man made filament is chiefly polyester for bed ticking.

48. TOWELS & TOWELING: woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste poundage used in these products is not included.

56b. NARROW FABRICS: Only home furnishings applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

50. CARPETS & RUGS (TOTAL): Sum of 50a & 50b.

50a. FACE YARNS: Tufted, woven, knitted and needle punched types. Tufted includes broadloom & roll goods, transportation carpeting, scatter rugs, bath mats and "grass." Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

50b. CARPET BACKING FIBERS: The Cellulosic Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil+film fiber+spunbonded) and small poundages of nylon & polyester filament yarn. The Other Staple is olefin only.

The substantial poundages of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the poundages of wool, hair and jute used in carpet and rug pads and cushions.

51. CURTAINS: Lace and other types (principally woven), i.e., cafe, tiered & cottage; ruffled; shortie drapes and tailored. Shower curtains are in Other Home Furnishings.

52. DRAPERY & UPHOLSTERY: Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c). Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings.

OTHER HOME FURNISHINGS: Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the man made fibers, it includes insect screening & netting. Wall-covering fabric is in Miscellaneous Industrial.

NOTES FOR INDUSTRIAL & OTHER CONSUMER-TYPE ITEMS
PAGES 166-167

For all lettered and general footnotes to this table, see page 169.

56c. NARROW FABRICS: Woven labels, industrial webbing, shoelaces, tapes (Venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, and outdoor furniture webs. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. MEDICAL, SURGICAL & SANITARY: Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. TRANSPORTATION FABRIC: Auto seat upholstery & slipcovers, sidewall, headlining (except textile glass in Item 77) and sheeting. The cotton poundages include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. It does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc., or the textile glass fiber used in reinforced plastic seating for subways, buses, etc. (in Item 77). Starting in 1978, the man made fiber used for substrates for automotive fabric is included in Item 75.

65. TIRES: All types, i.e., automobile, truck, tractor, off road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flipper fabric, breaker strips, bead wraps, etc.

The data include imports of tire yarn, cord & fabric and also cover any poundages subsequently exported in cord or fabric form. The glass figures represent uncoated yarns.

The consumption of steel tire cord for the years 1977-1985 inclusive is estimated as follows: 182.0, 182.0, 180.0, 142.0, 154.3, 159.8& 219.2. However, these poundages are **not included** in Item 65 above.

66. HOSE: Fire, chemical, fuel, etc. Does not include braided vacuum cleaner hose.

67. BELTING: Includes flat conveyor & transmission belts (both rubberized and nonrubberized) and V belts.

69 & 77. ELECTRICAL APPLICATIONS & REINFORCED PLASTICS: The cotton poundages are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification. The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.), and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl supported upholstery fabric in Item 63, etc.

70. FELTS: Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool poundage includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

71. FILTRATION: Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool poundage used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. SEWING THREAD: Home sewing and industrial & weight goods, as well as medical sutures.

73. ROPE: (Braided & twisted), **CORDAGE** (under 3/16"), **FISHLINE, ETC.,** includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. BAGS & BAGGING: Man made Other Yarn is nylon mailbags plus olefin leno mesh & close woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. COATED & PROTECTIVE FABRICS: For the man made fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets; awnings; beach, garden & tractor umbrellas; inflatable dunnage & cushions; air supported structures & automotive air spring diaphragms and boat & pool covers.

The cotton poundages include awnings, boat covers, tarpaulins and tents. **Not included** here are the cotton poundages used for vinyl substrates; such poundages are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Man made fiber surfaces for recreational fields are not included in this survey.

76. PAPER & TAPE REINFORCING Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. FIBERFILL, STUFFING & FLOCK: All applications (apparel, home furnishings & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1977-1983 inclusive was: 176.9, 199.2, 240.8, 206.1, 228.3 & 276.5. For the same years, use of polyester waste for stuffing and filling materials was: 54.6, 59.1, 41.5, 45.4, 24.0, 20.7 & 30.4.

79b. UNALLOCATED NONWOVENS All nonwoven poundages remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary; filtration; coated & protective fabrics; and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS: The cotton for abrasives; book binding; luggage & handbags; shoes & slippers; tobacco cloth; woven wiping cloths and wall covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macrame and other craft yarns.

Also included under Other Yarn are the substantial poundages of textile glass fiber not allocated elsewhere, particularly the poundages used in the manufacture of roofing shingles, built-up roofing and wallboard & plaster.

TABLE 10: FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

ITEM		ANNUAL DATA 1980	1981	1982	1983	QUARTERLY DATA 1983 1ST Q	1983 2ND Q	1983 3RD Q	1983 4TH Q	1984 1ST Q	1984 2ND Q	1984 3RD Q	1984 4TH Q
(A) ACETATE			(N) NYLON *			(P) POLYESTER				(O) OLEFIN			
HOSIERY[b]	N	106.3	107.0	92.3	104.3	25.4	26.3	26.0	26.6	27.8	25.6		
OTHER CIRCULAR KNIT[c]	N	56.6	48.2	25.7	24.5	5.3	6.0	5.0	7.2	4.2	5.1		
	P	495.7	345.6	228.4	293.7	77.2	79.3	67.5	69.7	55.7	42.0		
	A	3.2	3.6	1.6	2.1	0.7	0.5	0.6	0.3	0.4	1.0		
FLAT KNIT	A	144.9	98.7	71.7	79.1	18.0	23.6	20.1	17.4	18.1	19.8		
	N	176.3	163.2	130.8	162.2	39.0	42.4	39.8	41.0	40.4	33.0		
	P	83.8	98.4	87.0	116.6	22.4	26.2	31.3	36.7	32.7	36.0		
CARPET FACE	N	714.5	633.6	559.5	734.6	143.9	196.4	196.4	197.9	191.1	197.7		
	O	89.5	89.5	90.0	131.2	29.8	34.0	33.1	34.3	29.9	32.4		
CARPET BACKING[d]	O	197.8	195.3	184.7	198.8	46.1	54.1	53.7	44.9	48.1	53.0		
OTHER BROAD WOVEN[e]	A	110.5	110.7	88.8	113.6	24.2	29.2	29.7	30.5	29.8	30.5		
	N	94.3	89.2	82.2	83.6	21.3	22.3	19.3	20.7	20.5	24.7		
	P	405.5	440.2	367.0	489.9	107.0	138.6	118.1	126.2	104.8	93.9		
	O	186.3	200.7	172.5	217.1	48.9	57.2	58.1	52.9	51.2	54.3		
NARROW WOVEN[f]	A	8.7	8.6	2.9	1.7	0.9	0.2	0.4	0.2	0.1	0.3		
	N	31.4	34.0	30.2	35.3	7.0	9.2	9.5	9.6	10.8	10.1		
	P	28.1	28.1	28.1	35.5	7.7	8.5	8.7	10.6	8.6	8.8		
	O	12.3	12.6	12.1	15.0	3.7	3.5	3.8	4.0	3.7	3.8		
TIRES, INCL. CHAFER	N	209.2	204.7	147.9	145.5	29.2	33.7	34.8	47.8	42.4	45.5		
	P	161.0	174.8	168.9	174.1	42.9	45.3	42.5	43.4	44.6	44.5		
OTHER RUBBER INDUSTRY[g]	N	22.3	25.7	17.3	16.3	4.1	4.3	4.0	3.9	5.1	5.6		
	P	30.2	35.1	26.7	27.8	6.4	7.7	5.9	7.8	8.1	9.9		
ROPE, CORDAGE & FISHLINE	N	33.0	30.6	29.1	31.7	7.5	7.6	8.0	8.6	8.7	9.9		
	P	13.1	15.8	14.4	12.2	3.3	3.4	2.8	2.7	4.5	3.9		
	O	84.4	92.1	84.8	95.5	23.3	25.7	23.1	23.4	28.4	27.9		
ALL OTHER[h]	A	1.9	4.7	4.0	1.1	0.3	0.4	0.2	0.2	0.3	0.3		
	N	95.0	68.1	50.6	54.4	12.3	10.9	14.6	16.6	14.1	13.5		
	P	146.0	292.0	214.3	144.6	39.4	33.6	30.4	41.2	32.9	47.1		
	O	41.4	38.1	32.9	41.0	8.8	9.7	10.3	12.2	8.0	8.8		
TOTAL ABOVE	**A**	**269.2**	**226.3**	**169.0**	**197.6**	**44.1**	**53.9**	**51.0**	**48.6**	**48.7**	**51.9**		
	N	**1538.9**	**1404.3**	**1165.6**	**1392.4**	**295.0**	**359.1**	**358.4**	**379.9**	**365.1**	**370.7**		
	P	**1363.4**	**1430.0**	**1134.8**	**1294.4**	**306.3**	**342.6**	**307.2**	**338.3**	**291.9**	**286.1**		
	O	611.7	628.3	577.0	698.6	160.6	184.2	182.1	171.7	169.3	180.2		
TOTAL DOMESTIC		**3783.2**	**3588.5**	**3046.4**	**3582.8**	**806.0**	**939.8**	**898.7**	**938.3**	**875.0**	**888.9**		
ALSO DIVIDED AS													
APPAREL		1530.4	1530.0	1128.2	1257.5	305.4	335.6	301.7	314.8	278.1	308.8		
HOME FURNISHINGS		1212.7	1129.4	1016.6	1328.7	272.0	351.3	350.3	355.1	335.3	305.5		
INDUSTRIAL		1040.1	1029.5	901.6	996.8	228.6	252.9	246.7	268.6	261.6	274.6		
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		167.4	159.6	122.3	127.1	30.9	32.8	31.5	31.9	31.3	30.4		
POLYESTER		942.0	991.3	737.9	832.4	201.0	221.8	192.2	217.4	173.6	162.1		
OLEFIN		40.9	33.5	26.8	28.0	6.2	8.2	7.4	6.2	5.9	5.8		

*. Includes Aramid in 1980 through 1982.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other.

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only, i.e., industrial applications are in All Other.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Small poundages of olefin are included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing. Also includes indirect exports starting 1st Quarter 1980.

i. These poundages are included in the Total Domestic area above.

TABLE 11: STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1983				1984			
		1980	1981	1982	1983	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q
(R) RAYON (N) NYLON * (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN													
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	275.7	255.6	230.5	237.3	58.1	64.3	60.4	54.5	54.4	57.1		
	NPR	11.5	8.9	8.8	9.5	2.9	2.7	2.2	1.7	1.4	1.6		
PILE FABRICS[b]	A	60.4	44.7	36.4	33.0	9.0	10.3	7.8	5.9	8.3	8.9		
	P	18.3	14.9	15.6	18.2	4.8	4.9	5.0	3.5	4.8	5.0		
OTHER CIRCULAR+FLAT KNIT[c]	R	9.8	10.9	5.7	3.5	1.0	1.2	0.9	0.4	1.2	0.6		
	A	125.0	91.6	112.6	129.5	31.5	32.2	33.0	32.8	32.0	35.0		
	P	296.3	300.7	288.8	354.4	91.5	91.1	85.8	86.0	77.6	76.5		
BLANKETS[b]	A	42.2	28.1	23.7	27.1	7.7	6.7	8.1	4.6	6.9	5.5		
	P	17.3	14.8	12.0	10.5	3.8	2.8	2.5	1.4	1.4	1.4		
OTHER BROAD WOVEN	R	201.6	224.7	146.6	182.1	40.8	45.3	47.0	49.0	48.9	42.8		
	N	53.0	52.4	56.4	59.0	15.4	16.6	14.2	12.8	12.3	11.0		
	A	42.3	33.0	25.7	32.5	7.7	8.8	8.2	7.8	9.4	7.4		
	P	1194.6	1107.0	889.0	1062.9	237.0	270.4	272.3	283.2	272.6	270.6		
	O	17.3	17.1	16.1	19.4	4.9	5.0	4.9	4.6	5.7	5.3		
CARPET FACE YARNS	R	+	0.3	0.1	0.2	+	0.1	+	0.1	0.2	+		
	N	631.5	617.4	594.4	815.2	175.3	220.7	215.9	203.3	194.6	196.1		
	A		Included in All Other										
	P	119.9	124.0	114.7	139.0	34.7	39.8	33.2	31.3	31.2	35.6		
	O	61.6	67.5	76.8	93.6	21.7	23.7	22.7	25.5	22.4	25.2		
FIBERFILL[d]	P	205.1	226.7	228.4	275.4	60.8	68.8	75.3	70.5	69.2	65.9		
FLOCK	NP	10.8	13.0	10.2	10.6	2.3	3.0	3.0	2.3	2.3	2.3		
	R	5.1	5.6	3.1	3.2	0.9	0.7	0.7	0.9	0.7	0.7		
NONWOVENS[e,f]	R	147.3	124.6	111.9	119.0	30.5	29.0	29.3	30.2	33.8	32.4		
	N	3.2	3.5	3.8	4.9	1.1	1.1	1.4	1.3	0.9	0.6		
	P	166.6	149.3	155.2	177.4	38.8	48.4	47.8	42.4	44.6	46.7		
	VINYON+O	34.6	42.7	39.0	61.5	10.2	13.0	16.5	21.8	25.2	29.6		
ALL OTHER	R	26.2	29.1	24.3	23.8	6.3	6.1	6.4	5.0	5.5	5.6		
	N	12.2	10.3	7.7	5.2	1.2	1.6	1.3	1.1	1.1	0.9		
	A	39.7	41.1	29.0	32.8	6.1	7.0	10.4	9.3	9.6	10.3		
	P	42.6	60.6	57.8	55.8	14.6	12.6	14.7	13.9	11.7	24.5		
	VINYON+O	1.5	4.7	7.0	8.9	2.9	2.4	1.0	2.6	0.4	0.9		
TOTAL ABOVE	**R**	**390.7**	**396.9**	**293.7**	**333.5**	**80.1**	**83.0**	**84.6**	**85.8**	**90.7**	**82.5**		
	N	**711.2**	**696.4**	**673.3**	**897.1**	**196.0**	**243.5**	**236.2**	**221.4**	**211.1**	**210.6**		
	A	**585.3**	**494.1**	**457.9**	**492.2**	**120.1**	**129.3**	**127.9**	**114.9**	**120.6**	**124.2**		
	P	**2071.0**	**2005.4**	**1767.5**	**2099.2**	**487.6**	**540.4**	**538.1**	**533.1**	**514.2**	**527.7**		
	VINYON+O	**115.0**	**132.0**	**138.9**	**183.4**	**39.7**	**44.1**	**45.1**	**54.5**	**53.7**	**61.0**		
TOTAL DOMESTIC		**3873.2**	**3724.8**	**3331.3**	**4005.4**	**923.5**	**1040.3**	**1031.9**	**1009.7**	**990.3**	**1006.0**		
ALSO DIVIDED AS													
APPAREL		1632.9	1487.5	1321.7	1461.3	360.8	386.0	359.9	354.6	341.1	347.9		
HOME FURNISHINGS		1478.0	1442.9	1266.4	1630.0	363.9	432.9	424.8	408.4	404.7	406.1		
INDUSTRIAL		762.3	794.4	743.2	914.1	198.8	221.4	247.2	246.7	244.5	252.0		

* 1980 through 1982 poundages include Aramid.

a. Olefin poundages are included in All Other.

b. Rayon and nylon poundages are included in All Other.

c. Nylon poundages are included in All Other.

d. Rayon and acrylic poundages are included in All Other.

e. Wet & dry laid and needled batts only.

f. Acrylic poundages are included in All Other.

TABLE 12: SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM & COUNTRY	1984 JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	7 MONTHS 1984	1983
CELLULOSIC YARN, MONOFIL & STRIPS														
BRAZIL	55	5	0	0	0	0	0						60	149
CANADA	42	12	327	45	366	250	316						1358	965
MEXICO	163	120	55	41	41	0	40						460	618
AUSTRIA	0	0	0	0	0	0	0						0	1294
GERMANY, FED. REP. OF	714	327	396	256	405	159	571						2828	768
NETHERLANDS	28	40	40	57	49	24	65						303	300
UNITED KINGDOM	0	0	+	0	0	0	0						+	106
JAPAN	74	86	62	23	104	+	35						384	222
REP. OF KOREA	60	0	40	0	80	0	0						180	40
ALL OTHER COUNTRIES[a]	0	1	43	27	27	12	4						114	104
TOTAL CELL. YARN	**1136**	**591**	**963**	**449**	**1072**	**445**	**1031**						**5687**	**4626**
CELLULOSIC STAPLE+TOW														
CANADA	803	884	919	390	568	688	376						4628	2818
AUSTRIA	390	70	219	282	189	94	152						1396	936
FRANCE	16	18	7	2	0	38	0						81	75
SWEDEN	164	432	190	92	402	190	1195						2665	1953
UNITED KINGDOM	225	81	42	60	136	38	44						626	221
JAPAN	116	47	162	134	121	98	135						813	1158
TAIWAN	0	0	0	0	0	0	0						0	96
ALL OTHER COUNTRIES[b]	0	+	0	+	1	0	42						43	56
TOTAL CELL. STAPLE	**1714**	**1532**	**1539**	**960**	**1417**	**1146**	**1944**						**10252**	**7313**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
CANADA	1284	1467	1745	2221	1742	1936	1432						11827	4786
MEXICO	1317	1796	1574	1486	1101	1125	961						9360	1970
FRANCE	224	222	104	133	125	95	225						1128	996
GERMANY, FED. REP. OF	846	1097	2010	1482	2459	1494	1844						11232	3802
ITALY	199	569	390	407	642	559	1050						3816	1256
NETHERLANDS	54	95	26	17	5	114	76						387	198
SPAIN	95	225	2	0	1	+	0						323	969
SWITZERLAND	17	101	71	51	9	12	86						347	544
UNITED KINGDOM	531	89	366	204	289	128	1185						2792	1851
ISRAEL	111	72	84	43	148	169	348						975	798
JAPAN	1131	1338	1660	1574	1640	813	1869						10025	6293
REP. OF KOREA	42	55	37	24	13	13	3						187	429
TAIWAN	122	+	60	36	109	56	72						455	167
SOUTH AFRICA	347	563	112	450	695	85	326						2578	15
ALL OTHER COUNTRIES[c]	231	233	75	108	234	133	388						1402	286
TOTAL N.C. YARN	**6551**	**7922**	**8316**	**8236**	**9212**	**6732**	**9865**						**56834**	**24360**
NONCELLULOSIC STAPLE+TOW														
CANADA	1028	1102	1219	943	1727	1186	1435						8640	4239
COSTA RICA	155	354	237	249	114	82	53						1244	160
MEXICO	2812	2217	1451	1342	1629	1179	1328						11958	5018
BELGIUM	32	61	38	41	40	69	121						402	169
FRANCE	483	507	834	512	149	121	346						2952	4789
GERMANY, FED. REP. OF	1965	1587	2599	2064	2635	2371	5285						18507	10769
ITALY	1182	791	1234	1519	983	749	2264						8722	6391
NETHERLANDS	88	140	76	63	1	0	140						508	335
SWITZERLAND	22	+	113	58	57	2	22						274	108
UNITED KINGDOM	1306	1060	1711	1113	1512	885	1387						8974	8529
AUSTRALIA	0	24	0	0	0	0	14						38	91
ISRAEL	45	28	0	30	30	0	26						159	112
JAPAN	1334	926	1361	1092	1430	574	2013						8730	7117
REP. OF KOREA	0	40	62	120	40	0	64						326	215
TAIWAN	826	471	1576	1265	941	539	1436						7054	1970
ROMANIA	138	98	299	488	56	0	222						1301	145
SOUTH AFRICA	0	213	0	82	0	0	81						376	38
ALL OTHER COUNTRIES[d]	394	88	278	191	53	2	446						1452	373
TOTAL N.C. STAPLE	**11810**	**9707**	**13088**	**11172**	**11398**	**7759**	**16683**						**81617**	**50568**

+ Means a nominal poundage

Other countries supplying 1984 poundages are

a. Australia 3, Belgium 36, France 53, Italy 1 and Switzerland 21.

b. Brazil +, Federal Republic of Germany + Mexico 1 and Netherlands 42.

c. Australia 102, Austria 176, Belgium 64, Brazil 177, Costa Rica 198, Denmark 32, Finland 1, Hong Kong +, Iceland +, India 1, Ireland 35, Morocco 1, Norway 121, People's Republic of China +, Portugal 1, Romania 370 and Sweden 123.

d. Austria 31, Brazil 817, Denmark 62, Finland 37, Honduras 75, Hong Kong 2, Ireland 23, Poland 13, Portugal 41, Spain 25, Sweden 71 and Turkey 255.

TABLE 13: U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1984 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	7 MONTHS 1984	1983
CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	0	38	79	184	9	217						527	256
OTHER	310.0130 & .0230[a]	1136	585	880	359	878	420	814						5072	4196
MONOFILAMENTS	309.0310 & .0610	0	0	0	2	0	3	0						5	24
STRIPS, $1/LB & UNDER	309.2000*	0	6	45	9	10	13	0						83	150
SUBTOTAL ABOVE		**1136**	**591**	**963**	**449**	**1072**	**445**	**1031**						**5687**	**4626**
STAPLE	309.4320 & .4325	1517	1483	1365	900	1209	1108	1826						9408	6926
GROUPED FILAMENTS	309.3010 & .3110	197	49	174	60	208	38	118						844	387
SUBTOTAL ABOVE		**1714**	**1532**	**1539**	**960**	**1417**	**1146**	**1944**						**10252**	**7313**
WASTE, ADVANCED & NOT ADVANCED	309.6500 & .7510	**40**	**69**	**6**	**41**	**38**	**38**	**90**						**322**	**177**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON	310.0109 & .0209	1064	1571	1615	2435	2016	1468	1566						11735	2434
- POLYESTER	310.0110 & .0210	821	1167	834	867	1172	837	1065						6763	465
- OTHER	310.0114 & .0214	651	604	649	613	837	746	791						4891	4668
OTHER - NYLON	310.0149 & .0249	2022	2221	2918	2099	2928	1974	3983						18145	6998
- POLYESTER	310.0150 & .0250	1328	1658	1618	1504	1707	1287	2005						11107	6901
- OTHER	310.0170 & .0270[b]	202	274	310	281	247	166	193						1673	1642
MONOFILAMENTS	309.0200 & .0330[c]	383	325	282	336	243	132	175						1876	923
STRIPS, OVER $1/LB	309.2100 & .2500*	80	102	90	101	62	122	87						644	329
SUBTOTAL ABOVE		**6551**	**7922**	**8316**	**8236**	**9212**	**6732**	**9865**						**56834**	**24360**
STAPLE - NYLON	309.4338	2921	2034	2936	3665	2450	1698	7722						23426	15248
- POLYESTER	309.4342	3115	2489	2224	1816	2156	1504	2134						15438	6024
- ACRYLIC	309.4345	1081	1257	913	1297	1652	871	1426						8497	7930
- OLEFIN	309.4346	325	76	474	173	184	55	218						1505	672
- OTHER	309.4355	1109	969	1627	1551	1219	998	1867						9340	5032
GROUPED FILAMENTS															
NYLON	309.3030 & .3130	2271	1604	2787	1509	2033	1495	1831						13530	11339
POLYESTER	309.3040 & .3140	227	593	1026	611	793	641	444						4335	376
ACRYLIC	309.3050 & .3150	646	538	978	355	762	312	798						4389	3512
OTHER	309.3065 & .3165	115	147	123	195	148	185	243						1156	435
SUBTOTAL ABOVE		**11810**	**9707**	**13088**	**11172**	**11397**	**7759**	**16683**						**81616**	**50568**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2390	4767	2062	1623	1585	1218	7325						20970	13230
- POLYESTER	309.6630	634	810	621	775	458	341	1318						4957	6486
- ACRYLIC	309.6645	37	1	0	0	0	0	0						38	229
- OTHER	309.6660	139	213	452	265	308	214	690						2281	2102
NOILS & GARNETTED FIBERS	309.6000 & .7000*	56	62	12	0	15	74	23						242	98
OTHER WASTE, ADVANCED	309.7525 - .7555	105	300	179	299	218	228	449						1778	1564
SUBTOTAL ABOVE		**3361**	**6153**	**3326**	**2962**	**2584**	**2075**	**9805**						**30266**	**23709**
TOTAL MAN-MADE ABOVE		**24612**	**25974**	**27238**	**23820**	**25720**	**18195**	**39418**						**184977**	**110753**
OTHER MAN-MADE FIBER TOPS YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1106	0	+	0	0	0	0	0						+	+
- NONCELLULOSIC	310.1015[e] & .1109*	1109	1204	1068	968	610	791	957						6707	4252
OTHER - CELLULOSIC	310.1030 & .1135[f]	2	12	8	8	14	18	56						118	52
- NONCELLULOSIC	310.1050 & .1070[g]	146	84	162	183	517	305	304						1701	1423
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	104	52	136	91	186	227	173						969	515
- OTHER	310.4015 & .4027[i]	2641	3042	3050	2639	3069	3077	4580						22098	17978
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	121	112	118	46	23	241	46						707	2361
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	410	250	442	318	291	203	240						2154	1619
SLIVER, TOPS & ROVING	309.9000	589	756	607	639	381	74	362						3408	3344
TEXTILE GLASS FIBER	309.2800 & .2900[j]	2128	2900	2813	1725	2452	1499	1857						15374	10964
GRAND TOTAL ABOVE		**31862**	**34386**	**35642**	**30437**	**33263**	**24630**	**47993**						**238213**	**153261**

SOURCE: U.S.Census Bureau Report IM145X.

NES - Not elsewhere specified.

\+ Means a nominal poundage.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Any separation between cellulosic and noncellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 14: SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1984 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1984	1983
MAN-MADE FIBER DATA[c]					**TOTAL SHIPMENTS[b]**									
YARN+MONOFILAMENTS[d]														
ACETATE	**17.8**	**16.9**	**19.8**	**17.8**	**20.3**	**18.0**	**15.8**	**17.6**					**144.0**	**151.4**
NYLON[e] - INDUSTRIAL[f]	28.1	29.9	32.8	33.4	32.4	32.7	27.7	30.9					247.9	195.3
- LOW DENIER INDUSTRIAL[g]	3.1	3.0	3.0	2.9	2.7	2.8	2.7	2.8					23.0	21.8
- CARPET	70.0	62.9	65.5	72.0	70.4	61.3	60.2	67.1					529.4	485.0
- TEXTILE	34.3	31.3	31.1	32.7	30.6	26.9	25.3	28.6					240.8	253.5
POLYESTER - INDUSTRIAL[f]	24.5	25.2	28.3	26.4	27.6	26.7	26.0	27.4					212.1	202.4
- LOW DENIER INDUSTRIAL[g]	1.9	2.1	2.1	2.2	2.0	2.2	2.0	1.9					16.4	17.1
- TEXTILE	84.9	69.9	67.1	75.3	70.7	65.4	61.4	69.2					563.9	674.1
OLEFIN[h]	52.6	56.9	64.1	58.3	61.9	63.8	57.9	60.8					476.3	474.9
TOTAL NONCELLULOSIC ABOVE[i]	**299.4**	**281.2**	**294.0**	**303.2**	**298.3**	**281.8**	**263.2**	**288.7**					**2309.8**	**2324.1**
STAPLE+TOW+FIBERFILL[j]														
RAYON	**32.4**	**31.6**	**38.0**	**35.9**	**32.5**	**34.4**	**29.8**	**33.4**					**268.0**	**249.4**
NYLON[e]	80.0	65.9	70.8	82.3	74.1	57.3	59.4	72.1					561.9	602.9
ACRYLIC+MODACRYLIC	53.0	52.2	63.9	58.2	56.7	60.6	52.9	59.9					457.4	440.6
POLYESTER	172.5	177.5	197.0	200.8	190.2	171.3	156.8	189.5					1455.6	1432.1
OLEFIN+VINYON	18.6	18.5	20.4	20.2	19.9	21.5	19.4	21.9					160.4	116.8
TOTAL NONCELLULOSIC ABOVE	**324.1**	**314.1**	**352.1**	**361.5**	**340.9**	**310.7**	**288.5**	**343.4**					**2635.3**	**2592.4**
					END-OF-MONTH STOCK									
YARN+MONOFILAMENTS														
ACETATE	**14.3**	**14.6**	**13.2**	**13.6**	**11.8**	**13.1**	**16.2**	**15.5**					**15.5**	**12.3**
NYLON[e] - INDUSTRIAL[f]	23.2	23.7	23.1	22.1	21.3	22.4	25.1	29.0					29.0	30.8
- LOW DENIER INDUSTRIAL[g]	4.0	4.4	5.7	5.7	5.9	5.1	5.3	5.3					5.3	4.4
- CARPET	54.0	58.8	60.4	55.9	60.4	63.9	66.4	61.0					61.0	45.5
- TEXTILE	36.3	36.9	37.5	36.4	37.2	42.4	43.8	44.9					44.9	37.9
POLYESTER - INDUSTRIAL[f]	22.0	22.3	20.2	19.4	18.5	18.1	20.1	20.2					20.2	23.3
- LOW DENIER INDUSTRIAL[g]	3.4	3.5	3.8	3.5	3.8	4.6	4.6	5.0					5.0	2.4
- TEXTILE	77.2	82.8	86.4	84.1	85.1	86.7	88.6	83.4					83.4	78.8
OLEFIN[h]	58.1	59.3	60.9	61.5	60.1	61.4	60.2	58.9					58.9	54.6
TOTAL NONCELLULOSIC ABOVE[i]	**278.2**	**291.7**	**298.0**	**288.6**	**292.3**	**304.6**	**314.1**	**307.7**					**307.7**	**277.7**
STAPLE+TOW+FIBERFILL														
RAYON	**25.1**	**27.4**	**25.3**	**23.2**	**27.5**	**26.2**	**28.1**	**26.7**					**26.7**	**21.4**
NYLON[e]	70.2	76.0	79.3	71.7	72.8	82.2	87.0	77.4					77.4	55.0
ACRYLIC+MODACRYLIC	77.3	79.6	75.4	75.6	78.1	74.8	75.3	72.3					72.3	68.4
POLYESTER	180.2	188.6	188.7	177.4	178.0	199.9	223.7	209.9					209.9	181.6
OLEFIN+VINYON	20.4	21.2	19.8	20.1	20.7	20.0	21.7	21.5					21.5	15.8
TOTAL NONCELLULOSIC ABOVE	**348.1**	**365.4**	**363.2**	**344.8**	**349.6**	**376.9**	**407.7**	**381.1**					**381.1**	**320.8**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	13.3	15.2	15.0	14.5	14.7	14.0							86.7	75.1
CARPET CLASS WOOL	0.9	0.8	0.9	1.1	1.0	0.9							5.6	5.5
TOTAL RAW WOOL	14.2	16.0	15.9	15.6	15.7	14.9							92.3	80.6
RAW COTTON	246.1	242.7	249.9	226.8	233.0	229.6							1428.1	1409.6

a. Year-to-date totals except for stock, which is the latest month's data.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic plus export shipments.
d. Rayon yarn data are available annually only; see page 37 of the March/April issue.
e. Data for nylon exclude aramid.
f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.
h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
i. Saran and spandex data are not included in these totals. See page 37 of the March/April issue for annual data on these yarns.
j. Acetate staple+tow data are available annually only; see page 37 of the March/April issue.

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The **TEXTILE ECONOMICS BUREAU, INC. (TEB)** is proud to announce with **SAGE DATA, INC.**, Princeton, NJ, the completion of its **MAN-MADE FIBER PRODUCER'S HANDBOOK** computerized database. This database offers the latest in computerized time-sharing, and covers the U.S. man-made fiber industry monthly, quarterly and annually for production, shipments, inventories, capacities and end uses. All major man-made fibers are covered: rayon, acetate, acrylic, nylon, polyester, olefin and glass fibers.

Best of all, this database is the only **OFFICIAL** source for man-made fiber data in the United States.

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This system is fully compatible with most of today's computers, and . . .

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